

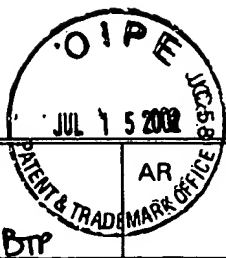


RECEIVED
JUL 17 2002
Technology Center 2600

PATENT

Page 3 of 4

BTP		Kiang, N.Y.S. and Moxon, E.C., Tails of tuning curves of auditory-nerve fibers. J. Acoust. Soc. Am. 55, 620-630 (1974)
BL		Kiang, N.Y.S., Liberman, M.C., Sewell, W.F., and Guinan, J.J., Single unit clues to cochlear mechanisms. Hear. Res. 22, 171-182 (1986)
BM		Levitt, H., Pickett, J.M., and Houde, R.A., Sensory Aids for the Hearing Impaired. IEEE Press, NY. (1980)
BN		Lin, T., Quantitative Modeling of Nonlinear Auditory-Nerve Responses as Two-Factor Interactions. Abstract and Table of Contents for D.Sc. Dissertation supervised by J.L. Goldstein, Sever Inst. of Technology, Washington Univ., St. Louis, MO.
BO		Lin, T., and Guinan, Jr., John J., Auditory nerve-fiber responses to high-level clicks: Interference patterns indicate that excitation is due to the combination of multiple drives. J. Acoust. Soc. Am. 107 (5), Pt. 1, pp. 2615-2630 (May 2000)
BP		Lippmann, R.P., Braida, L.D., and Durlach, N.I., Study of multichannel amplitude compression and linear amplification for persons with sensorineural hearing loss. J. Acoust. Soc. Am. 69 (2), 524-534 (1981)
BQ		Mountain, D.C., Changes in endolymphatic potential and crossed olivocochlear stimulation alter cochlear mechanics. Science 210, 71-72 (1980)
BR		Mueller, G., Hawkins, D.B., and Northern, J.L., Probe Microphone Measurements: Hearing Aid Selection and Assessment, Chapter 12: Corrections and Transformations Relevant to Hearing Aid Selection. Singular Publishing, San Diego, CA, pp. 251-268 (1992)
BS		Murugasu, E., and Russell, I.J., The effect of efferent stimulation on basilar membrane displacement in the basal turn of the guinea pig cochlea. J. Neurosci. 16 (1), 325-332 (1996)
BT		Neuman, A., Bakke, M.A., Mackersie, C., Hellman, S., and Levitt, H., The effect of compression ratio and release time on the categorical rating of sound quality. J. Acoust. Soc. A. 103 (5), 2273-2281 (1998)
BU		Pfeiffer, R.R., A model for two-tone inhibition of single cochlear nerve fibers. J. Acoust. Soc. Am. 48, Number 6 (Part 2), 1373-1378 (1970)
BV		Plack, C.J., and Oxenham, A.J., Basilar membrane nonlinearity estimated by pulsation threshold. J. Acoust. Soc. Am. 107 (1), 501-507 (2000)
BW		Plomp, R., The negative effect of amplitude compression in multichannel hearing aids in the light of the modulation-transfer function. J. Acoust. Soc. Am. 83 (6), 2322-2327 (1988)
BX		Ruggero, M.A., Robles, L. and Rich, N.C., Two-tone suppression in the basilar membrane of the cochlea: Mechanical basis of auditory-nerve rate suppression. J. Neurophys. 68, 1087-1099 (October 1992)
BY		Sachs, M.B., and Young, E.D., Effects of nonlinearities on speech encoding in the auditory nerve. J. Acoust. Soc. Am. 68 (3), 858-875 (1980)
BZ		Skinner, M.W., Speech intelligibility in noise-induced hearing loss: Effects of high-frequency compensation. J. Acoust. Soc. Am. 67 (1), 306-317 (1980)
CA		Soli, S.D., Hearing aids: today and tomorrow. Echoes: The newsletter of The Acoustical Society of America, Vol. 4, no. 3 (1994)
CB		Valente, M., Fabry, D.A., Potts, L., and Sandlin, R.E., Comparing the performance of the Widex SENSO Digital hearing aid with analog hearing aids. J. Am. Acad. Audiol. 9, 342-360 (1998)
CC		Villchur, E., Signal processing to improve speech intelligibility in perceptive deafness. J. Acoust. Soc. Am. 53, 1646-1657 (June 1973)



BTP	AR	Goldstein, Exploring new principles of cochlear operation: bandpass filtering by the organ of Corti and additive amplification by the basilar membrane, <i>Proceedings of the International Symposium on Biophysics of Hair Cell Sensory Systems</i> , pp. 315-322 (June 28-July 3, 1993)
BTP	AS	Goldstein, Cochlear Signal Processing for Compression and Gain Control Extends Dynamic Range and Preserves Temporal Modulation, <i>NIDCD/VA Hearing Aid Research and Development Conference</i> , September 22-24, 1997
	AT	Goldstein, Relations among compression, suppression, and combination tones in mechanical responses of the basilar membrane: data and MBPNL model, <i>Hearing Research</i> 89:52-68 (1995)
	AU	Killion, M., and Fikret-Pasa, S., The 3 Types of Sensorineural Hearing Loss: Loudness and Intelligibility Considerations, <i>The Hearing Journal</i> 46(11):31-34 (1993)
	AV	Lin, T., and Goldstein, J.L., Implementation of the MBPNL Nonlinear Cochlear I/O Model in the C Programming Language, and Applications for Modeling Impaired Auditory Function, <i>Modeling Sensorineural Hearing Loss</i> , Chapter 4, pp. 67-78 (1997)
	AW	Plomp, Noise, Amplification, and Compression: Considerations of Three Main Issues in Hearing Aid Design, <i>Ear & Hearing</i> 15(1):2-12 (1994)
	AX	Villchur, Comments on "Compression? Yes, But for Low or High Frequencies, for Low or High Intensities, and with What Response Times?", <i>Ear & Hearing</i> , 18(2):169-171 (1997)
	AY	Abbas, P.J. and Sachs, M.B., Two-tone suppression in auditory-nerve fibers: Extension of stimulus response relationship. <i>J. Acoust. Soc. Am.</i> 59, 112-122 (1976)
	AZ	Allen, J.B., Hall, J.L., and Jeng, P.S., Loudness growth in 1/2-octave bands (LGOB) - A procedure for the assessment of loudness. <i>J. Acoust. Soc. Am.</i> 88, 745-753 (1990)
	BA	Bilger, R.C., Nuetzel, J.M., Rabinowitz, W.M., and Rzeckowski, C., Standardization of a test of speech perception in noise. <i>J. Speech Hear. Res.</i> 27, 32-48 (1984)
	BB	Deng, L. and Geisler, C.D., Responses of auditory-nerve fibers to nasal consonant-vowel syllables. <i>J. Acoust. Soc. Am.</i> 82, 1977-1988 (1987)
	BC	Duifhuis, H., Cochlear nonlinearity and second filter: Possible mechanism and implications. <i>J. Acoust. Soc. Am.</i> 59, 408-423 (1976)
	BD	Duifhuis, H., Level effects in psychophysical two-tone suppression. <i>J. Acoust. Soc. Am.</i> 67, 914-927 (1980)
	BE	Engbretson, A.M., Morley, R.E., and Popelka, G.R., Development of an ear-level digital hearing aid and computer assisted fitting procedure. <i>J. Rehab. Res. Devel.</i> , 24 (4), 55-64 (1987)
	BF	Gifford, M.L., and Guinan, J.J., Effects of crossed-olivocochlear-bundle stimulation on cat auditory nerve fiber responses to tones. <i>J. Acoust. Soc. Am.</i> 74, 115-123 (1983)
	BG	Goldstein, J.L., Hearing Aids Based on Models of Cochlear Compression. NIDCD SBIR Phase II Grant Application: Phase-I Grant No. 1R43 DC04028, filed with U.S. Department of Health & Human Services Public Health Service (Unpublished)
	BH	Goldstein, J.L., Valente, M., Chamberlain, R., Gilchrist, P., and Ivanovich, D., Pilot experiments with a simulated hearing aid based on models of cochlear compression. <i>IHCON 2000</i> , Lake Tahoe, CA (8/24/2000)
	BI	Goldstein, J.L., Valente, M., Chamberlain, R., Acoustic and psychoacoustic benefits of adaptive compression thresholds in hearing aid amplifiers that mimic cochlear function. <i>J. Acoust. Soc. Am.</i> vol. 109, p. 2355 (2001)
BTP	BJ	Kalikow, D.N., Stevens, K.N., and Elliot, L.L., Development of a test of speech intelligibility in noise using sentence materials with controlled word predictability. <i>J. Acoust. Soc. Am.</i> 61, 1337-1351 (1977)

BTP	Watson, N.A., and Knudsen, V.O., Selective amplification in hearing aids. J. Acoust. Soc. Am. 11, 406-419 (1940)
EXAMINER: <i>B. P. R.</i>	DATE CONSIDERED: <i>9/15/03</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of the form with next communication to applicant.	

42202.doc

Information Disclosure Statement -- PTO-1449 (Modified)

RECEIVED
JUL 17 2002
Technology Center 2600